STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10 645,304A_
Source: _IFWD_
Date Processed by STIC: _4-29-05_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 4.2.2 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
      http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
<u>Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:</u>

1. EFS-Bio (<u><http://www.uspto.gov/ebc/efs/downloads/documents.htm></u> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
   U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

ERROR DETECTED   **SUGGESTED CORRECTION**   SERIAL NUMBER: 10/645,304A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1_____ Wrapped Nucleics   The number/text at the end of each line "wrapped" down to the next line. This may occur if your file
        Wrapped Aminos   was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will
                            prevent "wrapping."

2_____ Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

3_____ Misaligned Amino   The numbering under each 5" amino acid is misaligned. Do not use tab codes between numbers:
        Numbering   use space characters, instead.

4_____ Non-ASCII   The submitted file was not saved in ASCII(DOS)Iext, as required by the Sequence Rules. Please
                            ensure your subsequent submission is saved in ASCII text.

5_____ Variable Length   Sequence(s)_____ contain n's or Xaa's representing more than one residue. Per Sequence Rules,
                            each n or Xaa can only represent a single residue. Please present the maximum number of each
                            residue having variable length and indicate in the <220>-<223> section that some may be missing

6_____ PatentIn 2.0   A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
        "bug"   sequences(s)_____. Normally, PatentIn would automatically generate this section from the
                            previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to
                            the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for
                            Artificial or Unknown sequences.

7_____ Skipped Sequences   Sequence(s)_____ missing. If intentional, please insert the following lines for each skipped sequence.
        (OLD RULES)   (2) INFORMATION FOR SEQ ID NO X (insert SEQ ID NO where "X" is shown)
                            (i)   SEQUENCE CHARACTERISTICS (Do not insert any subheadings under this heading)
                            (ii) SEQUENCE DESCRIPTION SEQ ID NO X (insert SEQ ID NO where "X" is shown)
                            This sequence is intentionally skipped

                            Please also adjust the "(ii) NUMBER OF SEQUENCES" response to include the skipped sequences.

8_____ Skipped Sequences   Sequence(s)_____ missing. If intentional please insert the following lines for each skipped sequence.
        (NEW RULES)   <210> sequence id number
                            <400> sequence id number
                            000

9_____ Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
        (NEW RULES)   Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
                            In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents

10_____ Invalid <213>   Per 1.823 of Sequence Rules, the only valid <213> responses are Unknown, Artificial Sequence or
         Response   scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or
                            is Artificial Sequence

11_____ Use of <220>   Use of <220> to <223> is MANDATORY if <213> Original response is "Artificial Sequence" or
                            "Unknown". Please explain source of genetic material in <220> to <223> section
                            (See "Federal Register," 06/01/1998, Vol 63, No 104, pp 29631-32) (See 1.823 of Sequence Rules)

12_____ PatentIn 2.0   Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file,
         "bug"   resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence
                            listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13_____ Misuse of n/Xaa   "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid

IFWO

RAW SEQUENCE LISTING   DATE: 04/29/2005
PATENT APPLICATION: **US/10/645,304A**   TIME: 15:13:57

Input Set : **D:\Angiogenix 1001 Sequence.txt**
Output Set: **N:\CRF4\04292005\J645304A.raw**

```
 3 <110> APPLICANT: Samuel , Stupp I.
 5 <120> TITLE OF INVENTION: CHARGED PEPTIDE-AMPHIPHILE SOLUTIONS & SELF ASSEMBLED
PEPTIDE
 6       NANOFIBER NETWORKS FORMED THEREBY
 8 <130> FILE REFERENCE: 126481.1001
10 <140> CURRENT APPLICATION NUMBER: 10/645,304A
11 <141> CURRENT FILING DATE: 2003-08-21
13 <150> PRIOR APPLICATION NUMBER: 60/406,016
14 <151> PRIOR FILING DATE: 2002-08-21
16 <160> NUMBER OF SEQ ID NOS: 22
18 <170> SOFTWARE: PatentIn version 3.2
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 7
22 <212> TYPE: PRT
23 <213> ORGANISM: Artificial
25 <220> FEATURE:
26 <223> OTHER INFORMATION: Cystine with a 16 carbon alkyl chain attached
28 <400> SEQUENCE: 1
30 Cys Cys Cys Cys Gly Gly Gly
31 1               5
34 <210> SEQ ID NO: 2
35 <211> LENGTH: 7
36 <212> TYPE: PRT
37 <213> ORGANISM: Artificial
39 <220> FEATURE:
40 <223> OTHER INFORMATION: Alanine with a 16 carbon alkyl chain attached
42 <400> SEQUENCE: 2
44 Ala Ala Ala Ala Gly Gly Gly
45 1               5
48 <210> SEQ ID NO: 3
49 <211> LENGTH: 7
50 <212> TYPE: PRT
51 <213> ORGANISM: Artificial
53 <220> FEATURE:
54 <223> OTHER INFORMATION: Serine with a 16 carbon alkyl chain attached
56 <400> SEQUENCE: 3
58 Ser Leu Ser Leu Gly Gly Gly
59 1               5
62 <210> SEQ ID NO: 4
63 <211> LENGTH: 7
64 <212> TYPE: PRT
65 <213> ORGANISM: Artificial
67 <220> FEATURE:
68 <223> OTHER INFORMATION: Cystein with a 16 carbon alkyl chain attached
```

Handwritten annotations:
Does Not Comply
Corrected Diskette Needed
(Pgs. 1-5)

What is the source of genetic material? (×4)

↑ see item # 11 on error summary sheet. 4/29/05

RAW SEQUENCE LISTING   DATE: 04/29/2005
PATENT APPLICATION: US/10/645,304A   TIME: 15:13:57

Input Set : **D:\Angiogenix 1001 Sequence.txt**
Output Set: **N:\CRF4\04292005\J645304A.raw**

```
70 <400> SEQUENCE: 4
72 Cys Cys Cys Cys Gly Gly Gly
73 1                 5
76 <210> SEQ ID NO: 5
77 <211> LENGTH: 7
78 <212> TYPE: PRT
79 <213> ORGANISM: Artificial
81 <220> FEATURE:
82 <223> OTHER INFORMATION: Alanine with a 16 carbon alkyl chain attached
84 <400> SEQUENCE: 5
86 Ala Ala Ala Ala Gly Gly Gly
87 1                 5
90 <210> SEQ ID NO: 6
91 <211> LENGTH: 7
92 <212> TYPE: PRT
93 <213> ORGANISM: Artificial
95 <220> FEATURE:
96 <223> OTHER INFORMATION: Serine with a 16 carbon alkyl chain attached
98 <400> SEQUENCE: 6
100 Ser Leu Ser Leu Gly Gly Gly
101 1                 5
104 <210> SEQ ID NO: 7
105 <211> LENGTH: 7
106 <212> TYPE: PRT
107 <213> ORGANISM: Artificial
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Cystein with a 16 carbon alkyl chain attached
112 <400> SEQUENCE: 7
114 Cys Cys Cys Cys Gly Gly Gly
115 1                 5
118 <210> SEQ ID NO: 8
119 <211> LENGTH: 7
120 <212> TYPE: PRT
121 <213> ORGANISM: Artificial
123 <220> FEATURE:
124 <223> OTHER INFORMATION: Alanine with a 16 carbon alkyl chain attached
126 <400> SEQUENCE: 8
128 Ala Ala Ala Ala Gly Gly Gly
129 1                 5
132 <210> SEQ ID NO: 9
133 <211> LENGTH: 7
134 <212> TYPE: PRT
135 <213> ORGANISM: Artificial
137 <220> FEATURE:
138 <223> OTHER INFORMATION: Serine with a 16 carbon alkyl chain attached
140 <400> SEQUENCE: 9
142 Ser Leu Ser Leu Gly Gly Gly
143 1                 5
146 <210> SEQ ID NO: 10
```

[handwritten annotations in right margin:] ✓ SAme errors

See item # 11 on error Summary Sheet,

RAW SEQUENCE LISTING   DATE: 04/29/2005
PATENT APPLICATION: US/10/645,304A   TIME: 15:13:57

Input Set : D:\Angiogenix 1001 Sequence.txt
Output Set: N:\CRF4\04292005\J645304A.raw

```
147 <211> LENGTH: 7
148 <212> TYPE: PRT
149 <213> ORGANISM: Artificial
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Cystein with a 16 carbon alkyl chain attached
154 <400> SEQUENCE: 10
156 Cys Cys Cys Cys Gly Gly Gly
157 1               5
160 <210> SEQ ID NO: 11
161 <211> LENGTH: 7
162 <212> TYPE: PRT
163 <213> ORGANISM: Artificial
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Alanine with a 16 carbon alkyl chain attached
168 <400> SEQUENCE: 11
170 Ala Ala Ala Ala Gly Gly Gly
171 1               5
174 <210> SEQ ID NO: 12
175 <211> LENGTH: 7
176 <212> TYPE: PRT
177 <213> ORGANISM: Artificial
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Serine with a 16 carbon alkyl chain attached
182 <400> SEQUENCE: 12
184 Ser Leu Ser Leu Gly Gly Gly
185 1               5
188 <210> SEQ ID NO: 13
189 <211> LENGTH: 7
190 <212> TYPE: PRT
191 <213> ORGANISM: Artificial
193 <220> FEATURE:
194 <223> OTHER INFORMATION: Cystein with a 16 carbon alkyl chain attached
196 <400> SEQUENCE: 13
198 Cys Cys Cys Cys Gly Gly Gly
199 1               5
202 <210> SEQ ID NO: 14
203 <211> LENGTH: 7
204 <212> TYPE: PRT
205 <213> ORGANISM: Artificial
207 <220> FEATURE:
208 <223> OTHER INFORMATION: Alanine with a 16 carbon alkyl chain attached
210 <400> SEQUENCE: 14
212 Ala Ala Ala Ala Gly Gly Gly
213 1               5
216 <210> SEQ ID NO: 15
217 <211> LENGTH: 7
218 <212> TYPE: PRT
219 <213> ORGANISM: Artificial
221 <220> FEATURE:
```

Same errors

same errs

```
222 <223> OTHER INFORMATION: Serine with a 16 carbon alkyl chain attached
224 <400> SEQUENCE: 15
226 Ser Leu Ser Leu Gly Gly Gly
227 1               5
230 <210> SEQ ID NO: 16
231 <211> LENGTH: 7
232 <212> TYPE: PRT
233 <213> ORGANISM: Artificial
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Cystein with a 16 carbon alkyl chain attached
238 <400> SEQUENCE: 16
240 Cys Cys Cys Cys Gly Gly Gly
241 1               5
244 <210> SEQ ID NO: 17
245 <211> LENGTH: 7
246 <212> TYPE: PRT
247 <213> ORGANISM: Artificial
249 <220> FEATURE:
250 <223> OTHER INFORMATION: Cystein with a 16 carbon alkyl chain attached
252 <400> SEQUENCE: 17
254 Ala Ala Ala Ala Gly Gly Gly
255 1               5
258 <210> SEQ ID NO: 18
259 <211> LENGTH: 7
260 <212> TYPE: PRT
261 <213> ORGANISM: Artificial
263 <220> FEATURE:
264 <223> OTHER INFORMATION: Serine with a 16 carbon alkyl chain attached
266 <400> SEQUENCE: 18
268 Ser Leu Ser Leu Gly Gly Gly
269 1               5
272 <210> SEQ ID NO: 19
273 <211> LENGTH: 7
274 <212> TYPE: PRT
275 <213> ORGANISM: Artificial
277 <220> FEATURE:
278 <223> OTHER INFORMATION: Cystein with a 16 carbon alkyl chain attached
280 <400> SEQUENCE: 19
282 Cys Cys Cys Cys Gly Gly Gly
283 1               5
286 <210> SEQ ID NO: 20
287 <211> LENGTH: 7
288 <212> TYPE: PRT
289 <213> ORGANISM: Artificial
291 <220> FEATURE:
292 <223> OTHER INFORMATION: Alanine with a 16 carbon alkyl chain attached
294 <400> SEQUENCE: 20
296 Ala Ala Ala Ala Gly Gly Gly
297 1               5
```

RAW SEQUENCE LISTING   DATE: 04/29/2005
PATENT APPLICATION: US/10/645,304A   TIME: 15:13:57

Input Set : **D:\Angiogenix 1001 Sequence.txt**
Output Set: **N:\CRF4\04292005\J645304A.raw**

```
300 <210> SEQ ID NO: 21
301 <211> LENGTH: 7
302 <212> TYPE: PRT
303 <213> ORGANISM: Artificial
305 <220> FEATURE:
306 <223> OTHER INFORMATION: Serine with a 16 carbon alkyl chain attached
308 <400> SEQUENCE: 21
310 Ser Leu Ser Leu Gly Gly Gly
311 1               5
314 <210> SEQ ID NO: 22
315 <211> LENGTH: 7
316 <212> TYPE: PRT
317 <213> ORGANISM: Artificial
319 <220> FEATURE:
320 <223> OTHER INFORMATION: X is 2,3-diaminopropionic acid
323 <220> FEATURE:
324 <221> NAME/KEY: misc_feature
325 <222> LOCATION: (5)..(7)
326 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
328 <400> SEQUENCE: 22
W--> 330 Ser Leu Ser Leu Xaa Xaa Xaa
331 1               5
```

(handwritten annotations:) Same errors — Pls explain source of genetic material. — Invalid response — OK

see item #11 on error summary sheet,

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 04/29/2005
PATENT APPLICATION: US/10/645,304A   TIME: 15:13:58

Input Set : **D:\Angiogenix 1001 Sequence.txt**
Output Set: **N:\CRF4\04292005\J645304A.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:22; Xaa Pos. 5,6,7

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22

VERIFICATION SUMMARY   DATE: 04/29/2005
PATENT APPLICATION: **US/10/645,304A**   TIME: 15:13:58

Input Set : **D:\Angiogenix 1001 Sequence.txt**
Output Set: **N:\CRF4\04292005\J645304A.raw**

L:330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0